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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/670,424	09/26/2000	Makoto Sato	00681/LH	5505
7590	05/05/2004		EXAMINER	
Frishauf Holtz Goodman Langer & Chick PC 767 Third Avenue 25th Floor New York, NY 10017			PARTHASARATHY, PRAMILA	
			ART UNIT	PAPER NUMBER
			2136	

DATE MAILED: 05/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

### **Detailed Action**

1. This action is in response to application filed on 09/26/2000. Claims 1 – 29 were received for consideration. No preliminary amendments for the claims were filled.

### ***Claim Objections***

2. Claims 18 – 21 and 23 – 27 are objected to because of the following informalities: Errors in the dependent claim number.

Examiner assumes Claims 18 – 21 depend on the independent Claim 17, Claims 23 – 26 are then dependent on Claim 21 and Claim 27 is dependent on Claim 26.

Appropriate correction is required.

### ***Election/Restrictions***

2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-16, drawn to encryption and decryption within a database management system for storing database encrypted in memory classified in **class 713, subclass 193 i.e. data processing protection using cryptography:** subject matter wherein unauthorized access to information held in static memory elements is prevented.
  - II. Claims 17-29, drawn to an encryption/decryption system comprising a rotation matrix generation unit and a vector generation unit classified in **class 380, subclass 277 i.e., key management:** subject matter providing supervision or control of a signal necessary for encryption or decryption.
3. Inventions I, and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are

shown to be separately usable. In the instant case, invention I has separate utility such as an apparatus and system for encrypting data using column key or row key with in a database management system, classified in a *different Class/Subclass*. Invention II has separate utility such as an encrypted system using a vector generation unit, classified in a *different Class/Subclass*. See MPEP 806.05(d).

1. The inventions are distinct, each from the other, because of the following reasons:

- (a) These inventions have acquired a separate status in the art as shown by their different classifications.
- (b) The search required for each Group is different and not co-extensive for examination purposes.

For example, the searches for the two inventions would not be co-extensive because these Groups would require different searches on PTO's classification class and subclass as following:

The Group I search (claims 1-16) would require use of search **class 713, subclass 193** (not require for the inventions II).

The Group II search (claims 17-29) would require use of search **class 380, subclass 277** (not require for the inventions I).

For the reasons given above restriction for examination purposes as indicated is proper.

2. Application is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48 (b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48 (b) and by the fee required under 37 CFR 1.17 (h).

### ***Conclusion***

6. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington, D.C. 20231 or  
**faxed to:** (703) 872-9306 for all formal communications.

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Fourth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pramila Parthasarathy whose telephone number is 703-305-8912. The examiner can normally be reached on 8:00a.m. To 5:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Pramila Parthasarathy  
April 26, 2004

*Ayaz Sheikh*  
AYAZ SHEIKH  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100